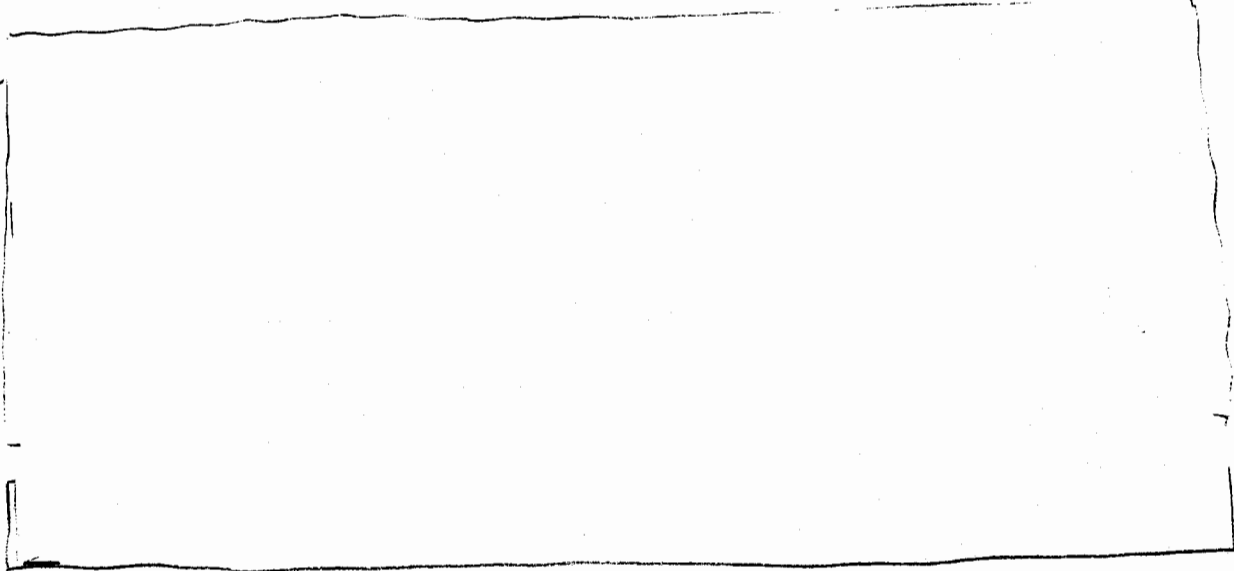


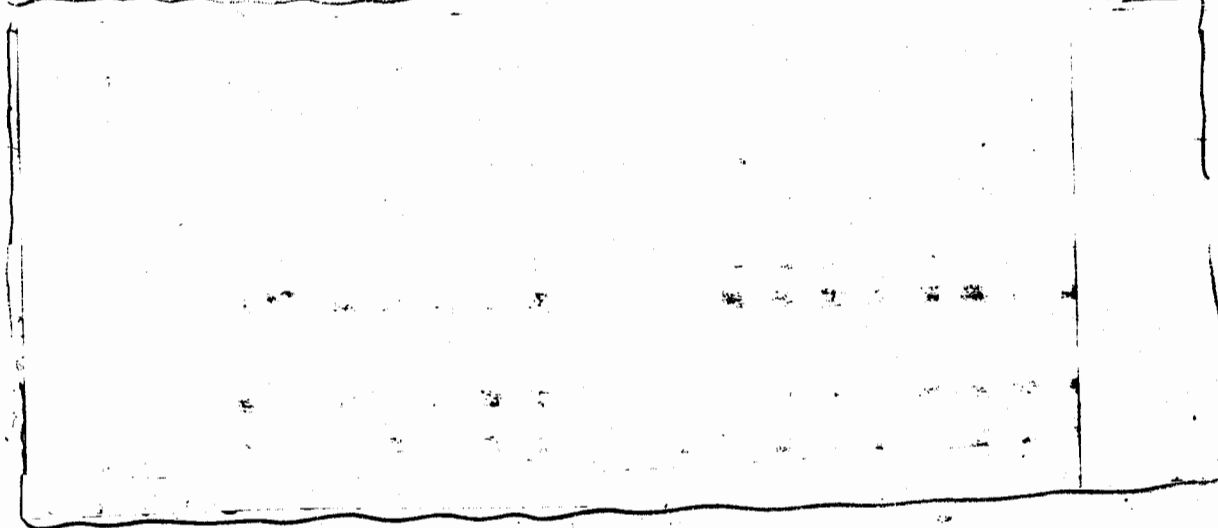
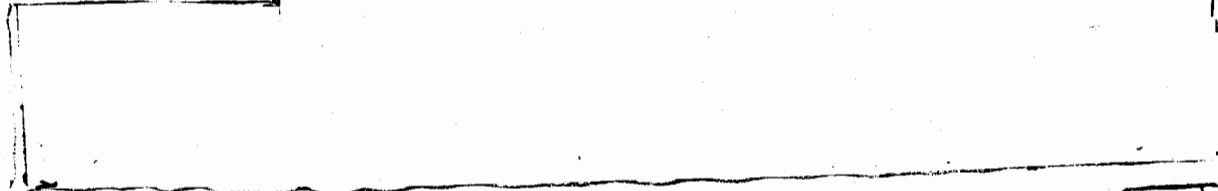
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-2-



E. (n,2n) Experiment.

Garwin discussed the (n,2n) experiment reported on at the Seventeenth meeting (see Seventeenth meeting, Item D). Garwin expects to write up the details of his proposal as a report within the next week.

The total yield measurement has previously been described.



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-6-

2. Booster.

DOE
DEC,

In the case of the booster, the determination of the energy level of the fission gadget when the DT starts to react could be obtained from a combination of GANEX and Ni activation. In particular this could be done as follows: The jump in the gamma intensity curve will tell you the relative increase in the fission rate due to 14 Mev neutrons, therefore, one can calculate the ratio of densities of 14 Mev DT neutrons to fission neutrons. Since, furthermore, Ogle measures the total 14 Mev neutron integral, we can get an absolute rate for the fission. (This is all based on the assumption that the DT burns rapidly enough to show a sudden boosting). It was agreed that it would be valuable to have the absolute energy level well determined in the case of the booster (as previously stated at the Ninth meeting, Item D, page 3) but that further discussion between J Division, Fermi and Krause would have to establish what effort this warrants.

The opinion was voiced by Teller that the decision on DINEX may properly be made outside the Family Committee by Fermi, Krause, J Division and the Laboratory Director. The Family Committee cannot evaluate the logistic situation. DINEX may give the only reliable and accurate determination of absolute timing. This determination is of considerable importance but does not have, in the opinion of the Family Committee, overriding priority.

G. Next Meeting.

There will be no meeting on August 17, 1950.

Fredric de Hoffmann

Executive Secretary

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DOE
b(3)

FIG. 1

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